

Rabbit Anti-Factor VIIIa light chain antibody

SL10417R

Product Name	Factor VIIIa light chain
Chinese Name	凝血因子 8/第八凝血因子/第八因子相关抗原轻链抗体
Alias	coagulation factor VIII; Ahf; Antihemophilic factor; Coagulation factor VIII; Coagulation factor VIII associated protein b; Coagulation factor VIII isoform b; Coagulation factor VIII procoagulant component; Coagulation factor VIIIc; Dna segment on chromosome x unique 1253 expressed sequence; Dxs1253e; F8; F8 protein; F8b; F8c; FactorVIII; FVIII; Hema; Hema coagulation factor VIIIc procoagulant component; Hemophilia a; Hemophilia classic; OTTHUMP00000061446; Procoagulant component; AHF; DXS1253E; F8B; F8C; FVIII; HEMA; FA8_HUMAN.
Research Area	Tumour Cardiovascular immunology Neurobiology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse WB=1:500-2000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	75kDa
Cellular localization	Extracellular matrix Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Factor VIIIa light chain: 1751-1850/2351
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Human,Mouse1M TBS(pH7.4) with 1% BSA, Human,Mouse3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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This gene encodes coagulation factor VIII, which participates in the intrinsic pathway of blood coagulation; factor VIII is a cofactor for factor IXa which, in the presence of Ca²⁺ and phospholipids, converts factor X to the activated form Xa. This gene produces two alternatively spliced transcripts. Transcript variant 1 encodes a large glycoprotein, isoform a, which circulates in plasma and associates with von Willebrand factor in a noncovalent complex. This protein undergoes multiple cleavage events. Transcript variant 2 encodes a putative small protein, isoform b, which consists primarily of the phospholipid binding domain of factor VIIIc. This binding domain is essential for coagulant activity. Defects in this gene results in hemophilia A, a common recessive X-linked coagulation disorder. [provided by RefSeq, Jul 2008].

Function:

Factor VIII, along with calcium and phospholipid, acts as a cofactor for factor IXa when it converts factor X to the activated form, factor Xa.

Subunit:

Interacts with vWF. vWF binding is essential for the stabilization of F8 in circulation.

Product Detail

Subcellular Location:

Secreted, extracellular space.

Post-translational modifications:

Sulfation on Tyr-1699 is essential for binding vWF.

DISEASE:

Hemophilia A (HEMA) [MIM:306700]: A disorder of blood coagulation characterized by a permanent tendency to hemorrhage. About 50% of patients have severe hemophilia resulting in frequent spontaneous bleeding into joints, muscles and internal organs. Less severe forms are characterized by bleeding after trauma or surgery. Note=The disease is caused by mutations affecting the gene represented in this entry. Of particular interest for the understanding of the function of F8 is the category of CRM (cross-reacting material) positive patients (approximately 5%) that have considerable amount of F8 in their plasma (at least 30% of normal), but the protein is non-functional; i.e. the F8 activity is much less than the plasma protein level. CRM-reduced is another category of patients in which the F8C antigen and activity are reduced to approximately the same level. Most mutations are CRM negative, and probably affect the folding and stability of the protein.

Similarity:

Belongs to the multicopper oxidase family.

Contains 3 F5/8 type A domains.

Contains 2 F5/8 type C domains.

Contains 6 plastocyanin-like domains.

SWISS:

P00451

Gene ID:

2157

Database links:

[Entrez Gene: 403875](#) Dog

[Entrez Gene: 2157](#) Human

[Entrez Gene: 14069](#) Mouse

[Entrez Gene: 397339](#) Pig

[Omim: 300841](#) Human

[SwissProt: O18806](#) Dog

[SwissProt: P00451](#) Human

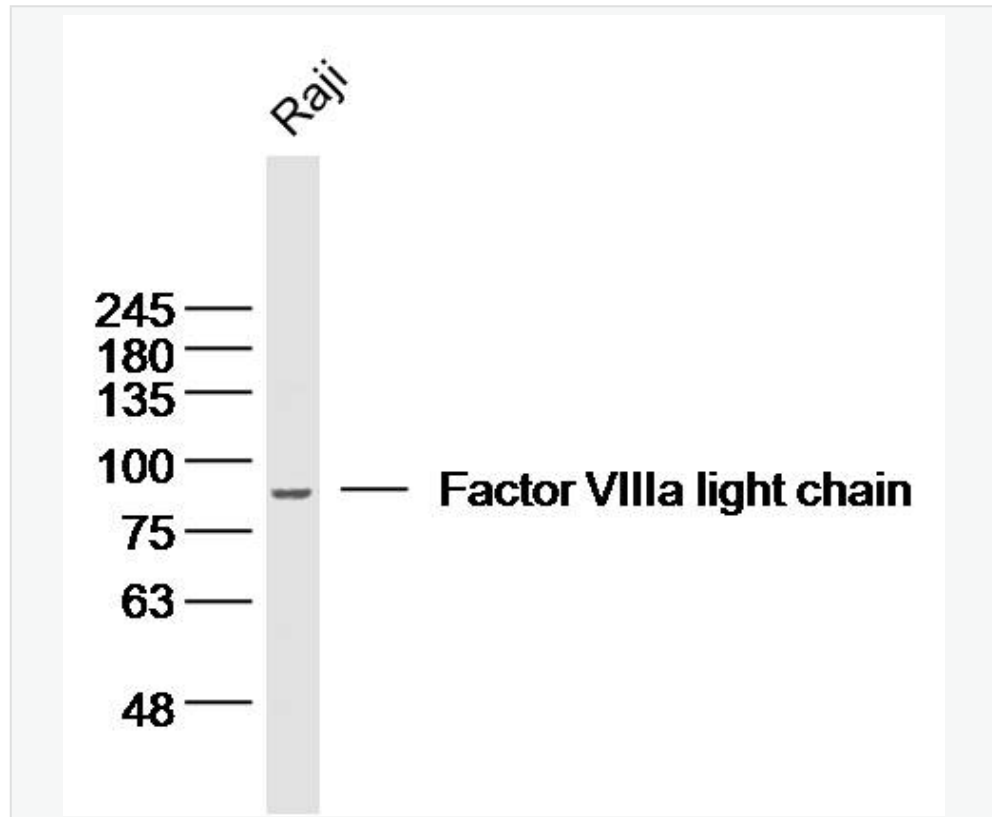
[SwissProt: Q06194](#) Mouse

[SwissProt: P12263](#) Pig

[Unigene: 654450](#) Human

[Unigene: 1805](#) Mouse

Product Picture



Sample:

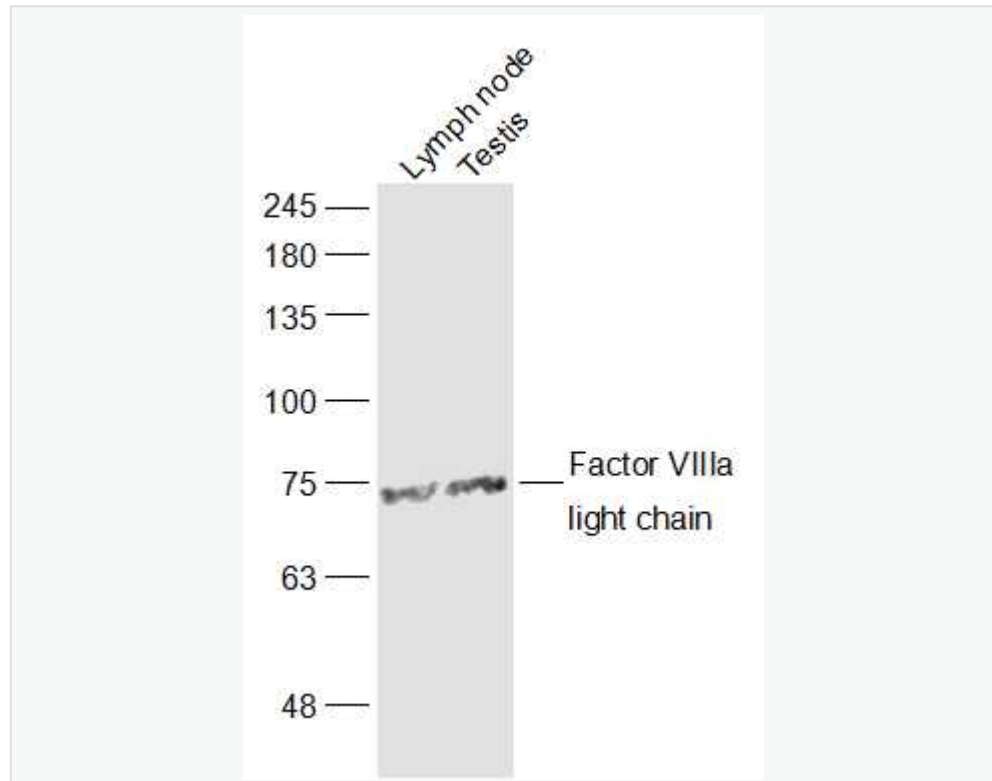
Raji (human)cell Lysate at 30 ug

Primary: Anti- Factor VIIIa light chain (SL10417R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 75kD

Observed band size: 85kD



Sample:

Lymph node (Mouse) Lysate at 40 ug

Testis (Mouse) Lysate at 40 ug

Primary: Anti-Factor VIIIa light chain (SL10417R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 75 kD

Observed band size: 75 kD